

SwarnaJayanti Fellowships Scheme- 2019-20

List of Applications -Chemical Sciences

S.No	Title of the Proposed Project Proposal/ Temporary File No.	Applicant Name And Address
1.	Treatment of Industrial Effluents Using Industrial and Agricultural Solid Wastes Effective and Intensified Remedy to Water Pollution and Solid Waste Management DST/SJF/CS/2020/50	Dr.Suyog Jain K. K. Wagh Institute of Engineering Education Research Amrutdham, Panchavati, Nashik Maharashtra-422003
2.	Electronically Tunable Next Generation Phosphorous-based Ligands in Organometallic Chemistry DST/SJF/CS/2020/51	Dr.MoumitaMajumdar Indian Institute of Science Education and ResearchPune Dr. Homi Bhabha Road Pune Maharashtra-411008
3.	Modulating dopant-graphene interactions through molecular design Towards stable n-doped graphene and consequent hierarchical molecular devices DST/SJF/CS/2020/52	Prof.Maheswaran Shanmugam Indian Institute of Technology Bombay Powai, Mumbai Maharashtra-400076
4.	Iridium-Catalyzed Enantioselective Allylic Substitution Reactions and their Applications for the Synthesis of Active Pharmaceutical Ingredients (APIs) DST/SJF/CS/2020/53	Prof.Santanu Mukherjee Indian Institute of Science Bangalore C. V. Raman Road Bangalore Karnataka-560012
5.	Lanthanide Doping in Perovskite Semiconductors: visible to infrared electroluminescence DST/SJF/CS/2020/54	Dr.Angshuman Nag Indian Institute of Science Education and Research Pune Dr. Homi Bhabha Road Pune Maharashtra-411008
6.	Chemical Bonding Under Stress: Stabilizing New Phases of Materials Under Extreme Condition DST/SJF/CS/2020/55	Dr.Ayan Datta Indian Association for the Cultivation of Science 2A& 2B Raja S C Mullick Road, Kolkata West Bengal-700032
7.	Processable and Reprocessable Materials for Wearable Electronics and 3D-Printing Applications DST/SJF/CS/2020/57	Dr.Santhosh Babu Sukumaran CSIR-National Chemical Laboratory Dr. Homi Bhabha Road , Pune Maharashtra-411008

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8.	Investigative Exploitation of Lewis Acidic Characteristics of Palladium Catalytic Systems For The Development of Novel Catalytic Processes DST/SJF/CS/2020/58	Dr.Anant Ramakant Kapdi Institute of Chemical Technology Nathalal Parekh Road, Matunga,Mumbai, Maharashtra-400019
9.	BODIPY-based NIR sensors for pH and/or viscosity probing of their microenvironment DST/SJF/CS/2020/59	Prof.Rajneesh Misra Indian Institute of Technology-Indore Khandwa Road, Simrol, Indore Madhya Pradesh-453552
10.	Synthesis of near infra-red cyclic luciferins for invivo bioluminescence detection of fatty acid amide hydrolase activity DST/SJF/CS/2020/60	Dr.Deepak Kumar Indian Institute of Technology-BHU Banaras Hindu University, Varanasi Uttar Pradesh-221005
11.	Self-assembly of Gold Nano Architecture for Direct Determination of Nucleic Acids inside Cells using Two-way Imaging Techniques DST/SJF/CS/2020/63	Dr.Kalyan Kumar Sadhu Indian Institute of Technology- Roorkee Roorkee Uttarakhand-247667
12.	Guiding Artificial Metalloenzymes Towards Synthesizing Optically Active Pharmaceuticals DST/SJF/CS/2020/67	Prof.Debabrata Maiti Indian Institute of Technology-Bombay Powai, Mumbai Maharashtra-400076
13.	Sustained Autonomy in Out of Equilibrium Supramolecular Materials DST/SJF/CS/2020/68	Dr.Dibyendu Das Indian Institute of Science Education and Research (IISER)- Kolkata Mohanpur, West Bengal-741246
14.	Bringing the Quantum Computing Revolution to Quantum Chemistry via tensor product states and machine learning DST/SJF/CS/2020/69	Dr.Debashree Ghosh Indian Association for the Cultivation of Science 2A & 2B, Raja S C Mullick Road, Kolkata West Bengal-700032
15.	Design, development and application of C ₂ -symmetric chiral cyclopentadien(on)e in the transition metal catalyzed asymmetric transformation DST/SJF/CS/2020/73	Dr.P Anbarasan Indian Institute of Technology-Madras Chennai Tamilnadu-600036
16.	Non-innocent Ligands for Catalysis with Earth-Abundant Metals DST/SJF/CS/2020/74	Dr.Ekambaram Balaraman Indian Institute of Science Education and Research- Tirupati Rami Reddy Nagar, Karakambadi Road, Mangalam P.O, Tirupati Andhra Pradesh-517507

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17.	Keratin based preparation of new porous and conductive carbon embedded with metal nanoparticles with tailored properties as a base material for flexible and disposable biosensors used as cancer biomarker DST/SJF/CS/2020/76	Dr.Aniruddha Balkrishna Patil Maharshi Dayanand College of Arts, Science and Commerce 25, Dr. S.S.Rao Road, Mangaldas Verma Chowk, Parel, Mumbai Maharashtra-400012
18.	Non-covalent Interaction and Photophysics Modulations with Heavier Chalcogen Substitution Mechanistic Studies and Applications to Photo Dynamic Therapy and Chirality Transfer DST/SJF/CS/2020/77	Dr.Himansu S Biswal National Institute of Science Education and Research-NISER Jatni Odisha-752050
19.	Why some oxides get reduced at an oxidizing electrochemical potential? A study on the ¹⁸ O isotope labeled electrochemical system DST/SJF/CS/2020/78	Prof.Sudhanshu Sharma Indian Institute of Technology- Gandhinagar, Palaj Village ,Simkheda,Gandhinagar Gujarat-382355
20.	Two-Dimensional Metal Organic Frameworks as Multifunctional Materials for Batch and Continuous Flow Catalysis DST/SJF/CS/2020/79	Dr. A. Dhakshinamoorthy Madurai Kamaraj University Palkalai Nagar, Madurai Tamilnadu-625021
21.	Enantioselective 1,5-Hydride Transfer in Acyclic Molecules DST/SJF/CS/2020/80	Prof.Subhas Chandra Pan Indian Institute of Technology-Guwahati Guwahati Assam-781039
22.	Green approaches for the synthesis of novel functionalized pyrrolo[2,1-a]isoquinolines and their mitigation towards a potent drug DST/SJF/CS/2020/82	Dr.Devanshi Magoo Hindu College University of Delhi Delhi-110007
23.	Bio-Inspired Molecular Catalysts for Solar Fuel Production DST/SJF/CS/2020/83	Dr.Somnath Maji Indian Institute of Technology- Hyderabad Kandi, Hyderabad Telangana-502285
24.	Development of small molecule modulators of bacterial Hsp70 pathway through understanding of GrpE structure and function DST/SJF/CS/2020/84	Dr.Ishu Saraogi Indian Institute of Science Education and Research -Bhopal Bhopal Bypass Road, Bhauri, Bhopal Madhya Pradesh-462066

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25.	An Unprecedented Bifunctional Chiral Catalyst System Dual Activation Approaches for Harnessing CO ₂ for Sustainable Enantioselective Transformations DST/SJF/CS/2020/85	Dr.Debasis Banerjee Indian Institute of Technology-Roorkee, Roorkee, Uttarakhand-247667
26.	Photoresponsive Memristive Discotic Liquid Crystals for the Development of Conceptually New Artificial Eye DST/SJF/CS/2020/86	Dr.Santanu Kumar Pal Indian Institute of Science Education and Research-Mohali Knowledge City, Sector 81, SAS Nagar, Manauli P.O Punjab-140306
27.	Development of a self-sustained bioelectrochemical system for simultaneous treatment of textile industry wastewater and brackish water DST/SJF/CS/2020/87	Dr.Surajbhan Sevda National Institute of Technology, Warangal Telangana-506004
28.	Deciphering the origin of stability of PPII helices: Rational design of PPII helical polyQ-aggregation inhibitors and artificial collagen mimics DST/SJF/CS/2020/89	Dr.Bani Kanta Sarma Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR) Jakkur P.O, Bengaluru Karnataka-560064
29.	Synthesizing Pristine Metal Diboride Nanosheets and their Nanoparticle Hybrids as Catalysts for Hydrogen Evolution Reaction DST/SJF/CS/2020/90	Dr.Kabeer Jasuja Indian Institute of Technology- Gandhinagar, Palaj Village ,Simkheda, Gandhinagar Gujarat-382355
30.	A Resilient Bipolar Ligand with Flexible Antenna Staple form Highly Efficient Eu(III) Complexes as Optoelectronic Molecular Red Emitting Material for OLEDs DST/SJF/CS/2020/91	Dr.Rajamouli Boddula Uka Tarsadia University Maliba Campus, Surat, Bardoli Gujarat-394350
31.	Engineering Artificial Bio-hybrid Catalysts for Asymmetric Catalysis and Sustainable Chemistry DST/SJF/CS/2020/92	Dr.Basker Sundararaju Indian Institute of Technology- Kanpur Kanpur Nagar Uttar Pradesh-208016
32.	Electrochemistry on Single Nanoparticle/Nanowire for Sensing Applications DST/SJF/CS/2020/93	Dr.Bikash Kumar Jena CSIR- IMMT Acharya Vihar, Bhubaneswar Odisha-751013

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33.	Strong Enough to Capture-Weak Enough to Lose: Rational Engineering and Applications of Lone pair-Pi interactions in the Sequestration of Detrimental Molecules DST/SJF/CS/2020/95	Dr.Raja Angamuthu Indian Institute of Technology- Kanpur Kanpur Nagar Uttar Pradesh-208016
34.	Pilot-scale implementation of a bioreactor, using <i>M. mariplaudis</i> as the microbial catalyst, for capturing industrial flue gases DST/SJF/CS/2020/97	Dr.Nishu Goyal University of Petroleum and Energy Studies Energy Acres, Bidholi P.O, Dehradun Uttarakhand-248007
35.	Development of Smart Organic-Perovskite Optoelectronic Devices: Innovation through Green Chemistry and Technology towards Sustainable Civilization DST/SJF/CS/2020/99	Dr.Akshaya Kumar Palai Central Institute of Plastics Engineering and Technology-Bhubaneswar B-25,CNI Complex,Patia, Bhubaneswar Odisha-751024
36.	Graphene and its derivatives from leave litter of <i>Pinus roxburghii</i> for purification of grey water DST/SJF/CS/2020/100	Dr.Vasudha Agnihotri G B Pant National Institute of Himalayan Environment Kosi-Katarmal, Almora Uttarakhand-263643
37.	Design and Synthesis of New Pharmaceutical Solids and Chemical Probes to Inhibit the Life Cycle of COVID-19 DST/SJF/CS/2020/101	Dr.Rambabu Dandela Institute of Chemical Technology, Indian Oil Odisha Campus, IIT Kharagpur Extension Centre Near Hotel Swosti Premium, Mouza Samantpuri, Bhubaneswar Odisha-751013
38.	Rational Design and Synthesis of Large Stokes Shift Containing Triptycene-based Organic Macrocyclic Fluorophores for the Sensing Applications. DST/SJF/CS/2020/102	Dr.Jyoti Agarwal Panjab University Sec-14, Chandigarh Chandigarh -160014
39.	Identification, Isolation, Evaluation and Establishment of herbal components/ polymeric principles from indigenous plant sources of Chhattisgarh state as herbal pharmaceutical excipients. DST/SJF/CS/2020/103	Dr.Anshita Gupta Shri Rawatpura Sarkar Institute of Pharmacy Behind Power Grid Kumhari Durg Chhattisgarh-492001